

LISTING OF CLAIMS

1. (Currently Amended) An electrical component for circuit board mounting, comprising a connector housing and surface mount solder connections provided on the bottom side of said housing, said surface mount solder connections functioning as SMD connections for interconnection of the housing to a surface of the circuit board by way of solder joints between solder connections assigned thereto on the circuit board, the housing further comprising a plurality of solderable bolt pins on the bottom side of the housing for additionally securing the housing to the circuit board, said bolt pins being profiled for engagement in continuous plated bolt holes assigned thereto on the circuit board and are soldered in said bolt holes.

2. (Previously Amended) An electric circuit board component according to claim 1, wherein the solder joints between the housing-side bolt pins and the bolt holes in the circuit board are in the form of surface mount solder joints.

3. (Previously Amended) An electric circuit board component according to claim 1, wherein the housing, inclusive of the bolt pins thereof, consists of plastic material, and in that at least the bolt pins are provided with a solderable metallization.

4. (Previously Amended) An electric circuit board component according to claim 3, wherein the metallized bolt pins are at reference potential.

5. (Previously Amended) An electric circuit board component according to claim 1, wherein the cross-sectional area of the bolt pins is selected to be considerably larger than the cross-sectional area of solder pins made of thin wires, as usually employed with such components.

6. (Currently Amended) An electric circuit board component according to claim 5, wherein the cross-sectional area of the bolt pins, in consideration of the number and material thereof, is selected to be so large that the mechanical load carrying capacity of the secured state of the housing on the circuit board sufficiently fulfills the requirements to be met thereby.

Appl. No. 09/831,415
Amdt. dated June 13, 2003
Reply to Office Action of February 13, 2003

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7. (Previously Amended) An electric circuit board component according to claim 1, wherein the bolt pins projecting beyond the bottom side of housing constitute lugs preferably integrally formed on the lower edge of housing on the outsides of side walls and back wall thereof.

8. (Previously Amended) An electric circuit board component according to claim 1, wherein the plated inner wall of the bolt holes in the circuit board is of slightly conical design, and that the thus-designed bolt holes have their largest inside width on the side of circuit board where the housing-side bolt pins engage in the bolt holes.

9. (Previously Amended) A method of automatically providing circuit boards with electric circuit board components, where the components include a component housing and surface mount solder connections provided on the bottom side of said housing for interconnection of the housing to the circuit board, and a plurality of solderable bolt pins on the bottom side of the housing for additionally securing the housing to the circuit board, the method comprising the steps of:

providing all solder connections and all bolt holes on the circuit board with a layer of soldering paste;

picking up the housing by an automatic pick and place machine and applying the housing to the circuit board exploiting the centering possibilities established by the bolt pins on the housing and the bolt holes in the circuit board; and

passing the circuit board along with the housing applied thereto through an SMD soldering furnace in which, in one operation, the housing-side SMD solder connections of the contacting feet are firmly soldered to the solder connections assigned thereto on the circuit board on the one hand, and the bolt pins on the housing are firmly soldered to the bolt holes assigned thereto on the circuit board on the other hand.